

John F Hartwig

List of Publications by Year in descending order

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476
papers

81,492
citations

143

157
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603

260
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525
all docs

525
docs citations

525
times ranked

29159
citing authors

#	ARTICLE	IF	CITATIONS
1	C-H Activation for the Construction of C-B Bonds. <i>Chemical Reviews</i> , 2010, 110, 890-931.	47.7	2,397
2	Evolution of a Fourth Generation Catalyst for the Amination and Thioetherification of Aryl Halides. <i>Accounts of Chemical Research</i> , 2008, 41, 1534-1544.	15.6	1,678
3	On the Interpretation of Deuterium Kinetic Isotope Effects in C-H Bond Functionalizations by Transition-Metal Complexes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3066-3072.	13.8	1,673
4	Transition Metal Catalyzed Synthesis of Arylamines and Aryl Ethers from Aryl Halides and Triflates: Scope and Mechanism. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2046-2067.	13.8	1,644
5	Carbon-Heteroatom Bond-Forming Reductive Eliminations of Amines, Ethers, and Sulfides. <i>Accounts of Chemical Research</i> , 1998, 31, 852-860.	15.6	1,082
6	Mild Iridium-Catalyzed Borylation of Arenes. High Turnover Numbers, Room Temperature Reactions, and Isolation of a Potential Intermediate. <i>Journal of the American Chemical Society</i> , 2002, 124, 390-391.	13.7	1,018
7	Borylation and Silylation of C-H Bonds: A Platform for Diverse C-H Bond Functionalizations. <i>Accounts of Chemical Research</i> , 2012, 45, 864-873.	15.6	917
8	Palladium-Catalyzed α -Arylation of Carbonyl Compounds and Nitriles. <i>Accounts of Chemical Research</i> , 2003, 36, 234-245.	15.6	879
9	Carbon-heteroatom bond formation catalysed by organometallic complexes. <i>Nature</i> , 2008, 455, 314-322.	27.8	866
10	Thermal, Catalytic, Regiospecific Functionalization of Alkanes. <i>Science</i> , 2000, 287, 1995-1997.	12.6	829
11	Palladium-catalyzed synthesis of arylamines from aryl halides. Mechanistic studies lead to coupling in the absence of tin reagents. <i>Tetrahedron Letters</i> , 1995, 36, 3609-3612.	1.4	801
12	Selective, Nickel-Catalyzed Hydrogenolysis of Aryl Ethers. <i>Science</i> , 2011, 332, 439-443.	12.6	743
13	Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic C-N Bond Formation with a Commercial Ligand. <i>Journal of Organic Chemistry</i> , 1999, 64, 5575-5580.	3.2	742
14	Palladium-catalyzed formation of carbon-nitrogen bonds. Reaction intermediates and catalyst improvements in the hetero cross-coupling of aryl halides and tin amides. <i>Journal of the American Chemical Society</i> , 1994, 116, 5969-5970.	13.7	727
15	Air Stable, Sterically Hindered Ferrocenyl Dialkylphosphines for Palladium-Catalyzed C-C, C-N, and C-O Bond-Forming Cross-Couplings. <i>Journal of Organic Chemistry</i> , 2002, 67, 5553-5566.	3.2	708
16	Regioselectivity of the borylation of alkanes and arenes. <i>Chemical Society Reviews</i> , 2011, 40, 1992.	38.1	696
17	Evolution of C-H Bond Functionalization from Methane to Methodology. <i>Journal of the American Chemical Society</i> , 2016, 138, 2-24.	13.7	632
18	A General and Long-Lived Catalyst for the Palladium-Catalyzed Coupling of Aryl Halides with Thiols. <i>Journal of the American Chemical Society</i> , 2006, 128, 2180-2181.	13.7	631

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19	Undirected, Homogeneous C-H Bond Functionalization: Challenges and Opportunities. <i>ACS Central Science</i> , 2016, 2, 281-292.	11.3	614
20	Paneth cells as a site of origin for intestinal inflammation. <i>Nature</i> , 2013, 503, 272-276.	27.8	605
21	Mechanistically Driven Development of Iridium Catalysts for Asymmetric Allylic Substitution. <i>Accounts of Chemical Research</i> , 2010, 43, 1461-1475.	15.6	595
22	Catalytic Silylation of Unactivated C-H Bonds. <i>Chemical Reviews</i> , 2015, 115, 8946-8975.	47.7	557
23	Palladium-Catalyzed Direct α -Arylation of Ketones. Rate Acceleration by Sterically Hindered Chelating Ligands and Reductive Elimination from a Transition Metal Enolate Complex. <i>Journal of the American Chemical Society</i> , 1997, 119, 12382-12383.	13.7	548
24	Improved Catalysts for the Palladium-Catalyzed Synthesis of Oxindoles by Amide α -Arylation. Rate Acceleration, Use of Aryl Chloride Substrates, and a New Carbene Ligand for Asymmetric Transformations. <i>Journal of Organic Chemistry</i> , 2001, 66, 3402-3415.	3.2	519
25	Palladium-Catalyzed Amination of Aromatic C-H Bonds with Oxime Esters. <i>Journal of the American Chemical Society</i> , 2010, 132, 3676-3677.	13.7	516
26	A Second-Generation Catalyst for Aryl Halide Amination: Mixed Secondary Amines from Aryl Halides and Primary Amines Catalyzed by (DPPF)PdCl ₂ . <i>Journal of the American Chemical Society</i> , 1996, 118, 7217-7218.	13.7	485
27	Mechanism of the Mild Functionalization of Arenes by Diboron Reagents Catalyzed by Iridium Complexes. Intermediacy and Chemistry of Bipyridine-Ligated Iridium Trisboryl Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 14263-14278.	13.7	469
28	A Stoichiometric Aromatic C-H Borylation Catalyzed by Iridium(η^5 -Cp) ₂ Ir(Bipyridine) Complexes at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3056-3058.	13.8	466
29	Simple, Highly Active Palladium Catalysts for Ketone and Malonate Arylation: Dissecting the Importance of Chelation and Steric Hindrance. <i>Journal of the American Chemical Society</i> , 1999, 121, 1473-1478.	13.7	452
30	A Broadly Applicable Copper Reagent for Trifluoromethylations and Perfluoroalkylations of Aryl Iodides and Bromides. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3793-3798.	13.8	442
31	Palladium-Catalyzed C-O Coupling Involving Unactivated Aryl Halides. Sterically Induced Reductive Elimination To Form the C-O Bond in Diaryl Ethers. <i>Journal of the American Chemical Society</i> , 1999, 121, 3224-3225.	13.7	434
32	Electronic Effects on Reductive Elimination To Form Carbon-Carbon and Carbon-Heteroatom Bonds from Palladium(II) Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 1936-1947.	4.0	418
33	Rhodium-Catalyzed Intermolecular C-H Silylation of Arenes with High Steric Regiocontrol. <i>Science</i> , 2014, 343, 853-857.	12.6	403
34	Oxidative Addition of Ammonia to Form a Stable Monomeric Amido Hydride Complex. <i>Science</i> , 2005, 307, 1080-1082.	12.6	398
35	Distinguishing Between Pathways for Transmetalation in Suzuki-Miyaura Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 2116-2119.	13.7	379
36	Unparalleled Rates for the Activation of Aryl Chlorides and Bromides: Coupling with Amines and Boronic Acids in Minutes at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4746-4748.	13.8	373

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37	Unusual in Situ Ligand Modification to Generate a Catalyst for Room Temperature Aromatic C–O Bond Formation. <i>Journal of the American Chemical Society</i> , 2000, 122, 10718-10719.	13.7	372
38	Metal-catalysed azidation of tertiary C–H bonds suitable for late-stage functionalization. <i>Nature</i> , 2015, 517, 600-604.	27.8	372
39	Hydroamination and Hydroalkoxylation Catalyzed by Triflic Acid. Parallels to Reactions Initiated with Metal Triflates. <i>Organic Letters</i> , 2006, 8, 4179-4182.	4.6	370
40	Catalytic functionalization of unactivated primary C–H bonds directed by an alcohol. <i>Nature</i> , 2012, 483, 70-73.	27.8	366
41	Copper-Mediated Difluoromethylation of Aryl and Vinyl Iodides. <i>Journal of the American Chemical Society</i> , 2012, 134, 5524-5527.	13.7	363
42	Abiological catalysis by artificial haem proteins containing noble metals in place of iron. <i>Nature</i> , 2016, 534, 534-537.	27.8	360
43	Meta Halogenation of 1,3-Disubstituted Arenes via Iridium-Catalyzed Arene Borylation. <i>Journal of the American Chemical Society</i> , 2007, 129, 15434-15435.	13.7	359
44	Discovery and Understanding of Transition-Metal-Catalyzed Aromatic Substitution Reactions. <i>Synlett</i> , 2006, 2006, 1283-1294.	1.8	357
45	Sterically Hindered Chelating Alkyl Phosphines Provide Large Rate Accelerations in Palladium-Catalyzed Amination of Aryl Iodides, Bromides, and Chlorides, and the First Amination of Aryl Tosylates. <i>Journal of the American Chemical Society</i> , 1998, 120, 7369-7370.	13.7	346
46	Palladium-Catalyzed Intermolecular Hydroamination of Vinylarenes Using Arylamines. <i>Journal of the American Chemical Society</i> , 2000, 122, 9546-9547.	13.7	345
47	Regio- and Enantioselective Allylic Amination of Achiral Allylic Esters Catalyzed by an Iridium ^{III} -Phosphoramidite Complex. <i>Journal of the American Chemical Society</i> , 2002, 124, 15164-15165.	13.7	345
48	Highly Reactive, General and Long-Lived Catalysts for Palladium-Catalyzed Amination of Heteroaryl and Aryl Chlorides, Bromides, and Iodides: Scope and Structure–Activity Relationships. <i>Journal of the American Chemical Society</i> , 2008, 130, 6586-6596.	13.7	337
49	High Turnover Number and Rapid, Room-Temperature Amination of Chloroarenes Using Saturated Carbene Ligands. <i>Organic Letters</i> , 2000, 2, 1423-1426.	4.6	335
50	Palladium-Catalyzed C–N Coupling of Ammonia and Lithium Amide with Aryl Halides. <i>Journal of the American Chemical Society</i> , 2006, 128, 10028-10029.	13.7	335
51	Palladium-Catalyzed C–N(sp ²) Bond Formation: N-Arylation of Aromatic and Unsaturated Nitrogen and the Reductive Elimination Chemistry of Palladium Azolyl and Methyleneamido Complexes. <i>Journal of the American Chemical Society</i> , 1998, 120, 827-828.	13.7	332
52	Palladium-Catalyzed Hydroamination of 1,3-Dienes: A Colorimetric Assay and Enantioselective Additions. <i>Journal of the American Chemical Society</i> , 2001, 123, 4366-4367.	13.7	331
53	Iridium-catalyzed C–H coupling reaction of heteroaromatic compounds with bis(pinacolato)diboron: regioselective synthesis of heteroarylboronates. <i>Tetrahedron Letters</i> , 2002, 43, 5649-5651.	1.4	326
54	Highly Reactive, General, and Long-Lived Catalysts for Coupling Heteroaryl and Aryl Chlorides with Primary Nitrogen Nucleophiles. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1371-1375.	13.8	326

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55	Silyl-Directed, Iridium-Catalyzed <i>ortho</i> -Borylation of Arenes. A One-Pot <i>ortho</i> -Borylation of Phenols, Arylamines, and Alkylarenes. <i>Journal of the American Chemical Society</i> , 2008, 130, 7534-7535.	13.7	323
56	Catalytic Organometallic Reactions of Ammonia. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 86-95.	13.8	319
57	Rhodium Boryl Complexes in the Catalytic, Terminal Functionalization of Alkanes. <i>Journal of the American Chemical Society</i> , 2005, 127, 2538-2552.	13.7	317
58	Iridium-Catalyzed C-H Borylation of Heteroarenes: Scope, Regioselectivity, Application to Late-Stage Functionalization, and Mechanism. <i>Journal of the American Chemical Society</i> , 2014, 136, 4287-4299.	13.7	317
59	Palladium Alkoxides: A Potential Intermediacy in Catalytic Amination, Reductive Elimination of Ethers, and Catalytic Etheration. Comments on Alcohol Elimination from Ir(III). <i>Journal of the American Chemical Society</i> , 1996, 118, 13109-13110.	13.7	309
60	Scope and Mechanism of Palladium-Catalyzed Amination of Five-Membered Heterocyclic Halides. <i>Journal of Organic Chemistry</i> , 2003, 68, 2861-2873.	3.2	309
61	Iridium-Catalyzed, Silyl-Directed Borylation of Nitrogen-Containing Heterocycles. <i>Journal of the American Chemical Society</i> , 2010, 132, 4068-4069.	13.7	305
62	An artificial metalloenzyme with the kinetics of native enzymes. <i>Science</i> , 2016, 354, 102-106.	12.6	296
63	Copper Complexes of Anionic Nitrogen Ligands in the Amidation and Imidation of Aryl Halides. <i>Journal of the American Chemical Society</i> , 2008, 130, 9971-9983.	13.7	294
64	A Heterogeneous Nickel Catalyst for the Hydrogenolysis of Aryl Ethers without Arene Hydrogenation. <i>Journal of the American Chemical Society</i> , 2012, 134, 20226-20229.	13.7	293
65	A Highly Active Palladium Catalyst for Intermolecular Hydroamination. Factors that Control Reactivity and Additions of Functionalized Anilines to Dienes and Vinylarenes. <i>Journal of the American Chemical Society</i> , 2006, 128, 1828-1839.	13.7	290
66	Catalytic, Regiospecific End-Functionalization of Alkanes: Rhenium-Catalyzed Borylation under Photochemical Conditions. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3391-3393.	13.8	289
67	A Fluorescence-Based Assay for High-Throughput Screening of Coupling Reactions. Application to Heck Chemistry. <i>Journal of the American Chemical Society</i> , 1999, 121, 2123-2132.	13.7	288
68	Synthesis, Structure, Theoretical Studies, and Ligand Exchange Reactions of Monomeric, T-Shaped Arylpalladium(II) Halide Complexes with an Additional, Weak Agostic Interaction. <i>Journal of the American Chemical Society</i> , 2004, 126, 1184-1194.	13.7	288
69	Selective Functionalization of Alkanes by Transition-Metal Boryl Complexes. <i>Science</i> , 1997, 277, 211-213.	12.6	284
70	Carbon-Sulfur Bond-Forming Reductive Elimination Involving sp^2 , sp^2 , and sp^3 -Hybridized Carbon. Mechanism, Steric Effects, and Electronic Effects on Sulfide Formation. <i>Journal of the American Chemical Society</i> , 1998, 120, 9205-9219.	13.7	280
71	Palladium-Catalyzed Amination of Aryl Halides: Mechanism and Rational Catalyst Design. <i>Synlett</i> , 1997, 329-340.	1.8	279
72	Identification of an Activated Catalyst in the Iridium-Catalyzed Allylic Amination and Etherification. Increased Rates, Scope, and Selectivity. <i>Journal of the American Chemical Society</i> , 2003, 125, 14272-14273.	13.7	277

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73	Carbon-Nitrogen-Bond-Forming Reductive Elimination of Arylamines from Palladium(II) Phosphine Complexes. <i>Journal of the American Chemical Society</i> , 1997, 119, 8232-8245.	13.7	275
74	Palladium-Catalyzed Coupling of Ammonia with Aryl Chlorides, Bromides, Iodides, and Sulfonates: A General Method for the Preparation of Primary Arylamines. <i>Journal of the American Chemical Society</i> , 2009, 131, 11049-11061.	13.7	275
75	Palladium-Catalyzed Inter- and Intramolecular α -Arylation of Amides. Application of Intramolecular Amide Arylation to the Synthesis of Oxindoles. <i>Journal of Organic Chemistry</i> , 1998, 63, 6546-6553.	3.2	274
76	Transition-Metal-Catalyzed Selective Functionalization of $C(sp^3)H$ Bonds in Natural Products. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4234-4241.	13.8	271
77	Reevaluation of the Mechanism of the Amination of Aryl Halides Catalyzed by BINAP-Ligated Palladium Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 3584-3591.	13.7	264
78	Highly Efficient and Functional-Group-Tolerant Catalysts for the Palladium-Catalyzed Coupling of Aryl Chlorides with Thiols. <i>Chemistry - A European Journal</i> , 2006, 12, 7782-7796.	3.3	264
79	Linear-Selective Hydroarylation of Unactivated Terminal and Internal Olefins with Trifluoromethyl-Substituted Arenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 13098-13101.	13.7	263
80	Structural Characterization and Simple Synthesis of $\{Pd[P(o-Tol)_3]_2\}$. Spectroscopic Study and Structural Characterization of the Dimeric Palladium(II) Complexes Obtained by Oxidative Addition of Aryl Bromides and Their Reactivity with Amines. <i>Organometallics</i> , 1995, 14, 3030-3039.	2.3	261
81	Carbon-Carbon Bond-Forming Reductive Elimination from Arylpalladium Complexes Containing Functionalized Alkyl Groups. Influence of Ligand Steric and Electronic Properties on Structure, Stability, and Reactivity. <i>Organometallics</i> , 2004, 23, 3398-3416.	2.3	260
82	Synthesis, Characterization, and Reactivity of Monomeric, Arylpalladium Halide Complexes with a Hindered Phosphine as the Only Dative Ligand. <i>Journal of the American Chemical Society</i> , 2002, 124, 9346-9347.	13.7	256
83	Stereodivergent Allylic Substitutions with Aryl Acetic Acid Esters by Synergistic Iridium and Lewis Base Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 87-90.	13.7	250
84	Brønsted Acid-Catalyzed Intramolecular Hydroamination of Protected Alkenylamines. Synthesis of Pyrrolidines and Piperidines. <i>Organic Letters</i> , 2002, 4, 1471-1474.	4.6	243
85	Rhodium-Catalyzed Anti-Markovnikov Hydroamination of Vinylarenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 5608-5609.	13.7	241
86	A General Strategy for the Perfluoroalkylation of Arenes and Arylbromides by Using Arylboronate Esters and $[(phen)CuR^F]$. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 536-539.	13.8	239
87	Palladium-Catalyzed Arylation of Malonates and Cyanoesters Using Sterically Hindered Trialkyl- and Ferrocenyldialkylphosphine Ligands. <i>Journal of Organic Chemistry</i> , 2002, 67, 541-555.	3.2	234
88	Efficient Synthesis of α -Aryl Esters by Room-Temperature Palladium-Catalyzed Coupling of Aryl Halides with Ester Enolates. <i>Journal of the American Chemical Society</i> , 2002, 124, 12557-12565.	13.7	233
89	Palladium-Catalyzed α -Arylation of Esters and Amides under More Neutral Conditions. <i>Journal of the American Chemical Society</i> , 2003, 125, 11176-11177.	13.7	232
90	From Bis(silylene) and Bis(germylene) Pincer-Type Nickel(II) Complexes to Isolable Intermediates of the Nickel-Catalyzed Sonogashira Cross-Coupling Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 15617-15626.	13.7	232

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91	Palladium-Catalyzed $\hat{\text{I}}\pm$ -Arylation of Esters and Protected Amino Acids. <i>Journal of the American Chemical Society</i> , 2001, 123, 8410-8411.	13.7	230
92	Cooperative asymmetric reactions combining photocatalysis and enzymatic catalysis. <i>Nature</i> , 2018, 560, 355-359.	27.8	230
93	Effect of Ligand Steric Properties and Halide Identity on the Mechanism for Oxidative Addition of Haloarenes to Trialkylphosphine Pd(0) Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 8141-8154.	13.7	229
94	A Simple, Multidimensional Approach to High-Throughput Discovery of Catalytic Reactions. <i>Science</i> , 2011, 333, 1423-1427.	12.6	229
95	Room temperature borylation of arenes and heteroarenes using stoichiometric amounts of pinacolborane catalyzed by iridium complexes in an inert solvent Electronic supplementary information (ESI) available: experimental procedures and spectral analyses of products. See http://www.rsc.org/suppdata/cc/b3/b311103b/ . <i>Chemical Communications</i> , 2003, 2924.	4.1	227
96	Enantioselective $\hat{\text{I}}\pm$ -Arylation of Ketones with Aryl Triflates Catalyzed by Difluorophos Complexes of Palladium and Nickel. <i>Journal of the American Chemical Society</i> , 2008, 130, 195-200.	13.7	225
97	Iridium-Catalyzed Arene <i>ortho</i> -Silylation by Formal Hydroxyl-Directed $\hat{\text{C}}^{\text{H}}$ Activation. <i>Journal of the American Chemical Society</i> , 2010, 132, 17092-17095.	13.7	225
98	Copper-Catalyzed Intermolecular Amidation and Imidation of Unactivated Alkanes. <i>Journal of the American Chemical Society</i> , 2014, 136, 2555-2563.	13.7	223
99	Oxidative Addition of Aryl Bromide after Dissociation of Phosphine from a Two-Coordinate Palladium(0) Complex, Bis(<i>tri-o</i> -tolylphosphine)Palladium(0). <i>Journal of the American Chemical Society</i> , 1995, 117, 5373-5374.	13.7	220
100	Palladium-Catalyzed Amination of Aryl Triflates and Importance of Triflate Addition Rate. <i>Journal of Organic Chemistry</i> , 1997, 62, 1268-1273.	3.2	220
101	Screening of Homogeneous Catalysts by Fluorescence Resonance Energy Transfer. Identification of Catalysts for Room-Temperature Heck Reactions. <i>Journal of the American Chemical Society</i> , 2001, 123, 2677-2678.	13.7	220
102	A General Nickel-Catalyzed Hydroamination of 1,3-Dienes by Alkylamines: $\hat{\text{A}}$ Catalyst Selection, Scope, and Mechanism. <i>Journal of the American Chemical Society</i> , 2002, 124, 3669-3679.	13.7	220
103	Selective C-H Fluorination of Pyridines and Diazines Inspired by a Classic Amination Reaction. <i>Science</i> , 2013, 342, 956-960.	12.6	220
104	Palladium-Catalyzed Synthesis of Arylamines from Aryl Halides and Lithium Bis(trimethylsilyl)amide as an Ammonia Equivalent. <i>Organic Letters</i> , 2001, 3, 2729-2732.	4.6	216
105	Oxidative Addition of Aryl Tosylates to Palladium(0) and Coupling of Unactivated Aryl Tosylates at Room Temperature. <i>Journal of the American Chemical Society</i> , 2003, 125, 8704-8705.	13.7	215
106	Cyanation of Arenes via Iridium-Catalyzed Borylation. <i>Journal of the American Chemical Society</i> , 2010, 132, 11389-11391.	13.7	213
107	Regio- and Enantioselective Iridium-Catalyzed Intermolecular Allylic Etherification of Achiral Allylic Carbonates with Phenoxides. <i>Journal of the American Chemical Society</i> , 2003, 125, 3426-3427.	13.7	211
108	Mechanistic Studies of the Palladium-Catalyzed Amination of Aryl Halides and the Oxidative Addition of Aryl Bromides to Pd(BINAP) ₂ and Pd(DPPF) ₂ : $\hat{\text{A}}$ An Unusual Case of Zero-Order Kinetic Behavior and Product Inhibition. <i>Journal of the American Chemical Society</i> , 2000, 122, 4618-4630.	13.7	210

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109	Resting State and Elementary Steps of the Coupling of Aryl Halides with Thiols Catalyzed by Alkylbisphosphine Complexes of Palladium. <i>Journal of the American Chemical Society</i> , 2009, 131, 7858-7868.	13.7	209
110	Iridium-Catalyzed Allylic Substitution. <i>Topics in Organometallic Chemistry</i> , 2011, , 169-208.	0.7	209
111	Copper-Mediated Fluorination of Aryl Iodides. <i>Journal of the American Chemical Society</i> , 2012, 134, 10795-10798.	13.7	208
112	Multistep One-Pot Reactions Combining Biocatalysts and Chemical Catalysts for Asymmetric Synthesis. <i>ACS Catalysis</i> , 2013, 3, 2856-2864.	11.2	207
113	Controlling First-Row Catalysts: Amination of Aryl and Heteroaryl Chlorides and Bromides with Primary Aliphatic Amines Catalyzed by a BINAP-Ligated Single-Component Ni(0) Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 1617-1627.	13.7	207
114	Influences on the Relative Rates for C–N Bond-Forming Reductive Elimination and β -Hydrogen Elimination of Amides. A Case Study on the Origins of Competing Reduction in the Palladium-Catalyzed Amination of Aryl Halides. <i>Journal of the American Chemical Society</i> , 1996, 118, 3626-3633.	13.7	205
115	Distinct Mechanisms for the Oxidative Addition of Chloro-, Bromo-, and Iodoarenes to a Bisphosphine Palladium(0) Complex with Hindered Ligands. <i>Journal of the American Chemical Society</i> , 2005, 127, 6944-6945.	13.7	200
116	Iridium-Catalyzed Silylation of Aryl C–H Bonds. <i>Journal of the American Chemical Society</i> , 2015, 137, 592-595.	13.7	200
117	Reductive Elimination of Aryl Halides from Palladium(II). <i>Journal of the American Chemical Society</i> , 2001, 123, 1232-1233.	13.7	199
118	Ruthenium-Catalyzed Anti-Markovnikov Hydroamination of Vinylarenes. <i>Journal of the American Chemical Society</i> , 2004, 126, 2702-2703.	13.7	199
119	Palladium-Catalyzed Amination of Aryl Halides and Related Reactions. , 0, , 1051-1096.		198
120	Copper-Mediated Fluorination of Arylboronate Esters. Identification of a Copper(III) Fluoride Complex. <i>Journal of the American Chemical Society</i> , 2013, 135, 2552-2559.	13.7	197
121	Pd-Catalyzed α -Arylation of α,α -Difluoroketones with Aryl Bromides and Chlorides. A Route to Difluoromethylarenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 4149-4152.	13.7	195
122	Stereodivergent Allylation of Azaaryl Acetamides and Acetates by Synergistic Iridium and Copper Catalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 1239-1242.	13.7	195
123	Hydrocarbon Functionalization by Transition Metal Boryls. <i>Journal of the American Chemical Society</i> , 1995, 117, 11357-11358.	13.7	194
124	Pushing the σ -Donor Strength in Iridium Pincer Complexes: Bis(silylene) and Bis(germylene) Ligands Are Stronger Donors than Bis(phosphorus(III)) Ligands. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11478-11482.	13.8	194
125	True Metal-Catalyzed Hydroboration with Titanium. <i>Journal of the American Chemical Society</i> , 1996, 118, 1696-1702.	13.7	193
126	Ruthenium-Catalyzed Regiospecific Borylation of Methyl C–H Bonds. <i>Journal of the American Chemical Society</i> , 2006, 128, 13684-13685.	13.7	192

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